INTERNATIONAL SEARCH REPORT

Inter vional Application No

•		PCT/S	JP2004/012223		
A. CLASSI IPC 7	FICATION OF SUBJECT MATTER C21D1/76 C23C2/06 C21D8/C	14			
According to	o International Patent Classification (IPC) or to both national classif	icalion and IPC			
	SEARCHED				
	ocumentation searched (classification system followed by classifica C21D C23C	tion symbols)			
Documenta	tion searched other than minimum documentation to the extent that	such documents are included in the	e fields searched		
	data base consulted during the International search (name of data buternal, PAJ, WPI Data	ease and, where practical, search ter	rms uśed)		
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT				
Category	Citation of document, with indication, where appropriate, of the r	elevant passages	Relevant to claim No.		
A	PATENT ABSTRACTS OF JAPAN vol. 2002, no. 02, 2 April 2002 (2002-04-02) & JP 2001 279412 A (NIPPON STEEL 10 October 2001 (2001-10-10) abstract	. CORP),	1,4		
A	PATENT ABSTRACTS OF JAPAN vol. 0041, no. 35 (C-025), 20 September 1980 (1980-09-20) & JP 55 085622 A (NIPPON KOKAN k others: 01), 27 June 1980 (1980- abstract	1			
А	US 2003/047255 A1 (DELAUNAY DIDI 13 March 2003 (2003-03-13) paragraphs '0009!, '0010!, '00 '0024! - '0027!	•	1		
X Fur	ther documents are listed in the continuation of box C.	X Palent family members at	re listed in annex.		
• Special co	alegories of cited documents:	*T* later document published after	r the international filing date		
consi	nent defining the general state of the last which is not dered to be of particular relevance document but published on or after the international date	or priorily date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to			
L docum which citatio *O* docum	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another on or other special reason (as specified) nent referring to an oral disclosure, use, exhibition or	"Y" document of particular relevant cannot be considered to invo	en the document is taken alone		
P docum	means ent published prior to the international filing date but than the priority date claimed	ments, such combination being obvious to a person skilled in the art. *&* document member of the same patent family			
Date of the	actual completion of the international search	Date of mailing of the internati	ional search report		
1	14 December 2004	13/01/2005			
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk	Authorized officer			
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Lilimpakis, E			

Form PCT/ISA/210 (second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

Intermional Application No PCT/JP2004/012223

- · ·	A DOOLWENTS CONSIDERED TO BE DELEVATE	PC1/JP2004/012223						
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Category * Citation of document, with Indication, where appropriate, of the relevant passages Relevant to claim No.								
Α	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 13, 5 February 2001 (2001-02-05) & JP 2000 290730 A (KAWASAKI STEEL CORP), 17 October 2000 (2000-10-17) abstract	1,4						
A	PATENT ABSTRACTS OF JAPAN vol. 2002, no. 03, 3 April 2002 (2002-04-03) & JP 2001 323355 A (NIPPON STEEL CORP), 22 November 2001 (2001-11-22) cited in the application abstract							

INTERNATIONAL SEARCH REPORT

Interponal Application No PCT/JP2004/012223

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
JP 2001279412	Α	10-10-2001	NONE			
JP 55085622	Α	27-06-1980	JP	59017169	В	19-04-1984
US 2003047255	A1	13-03-2003	FR BR DE EP ES JP	2828888 0203383 1285972 1285972 2188434 2003183799	A T1 A1 T1	28-02-2003 20-05-2003 18-09-2003 26-02-2003 01-07-2003 03-07-2003
JP 2000290730	Α	17-10-2000	NONE			
JP 2001323355	Α	22-11-2001	NONE			